

#### DETAILED ACTION

1. Claims 1 to 33 are presented for examination. Claims 1-4, 6, 8-14, 16- 24 and 32 are canceled by the amendment filed 2-2-2009.

#### *Allowable Subject Matter*

2. Claims 5, 7, 15, 25 to 31 and 33 are allowed.

3. The following is an examiner's statement of reasons for allowance: the prior art made of record teaches numerous methodologies for encoding a code block by separating the information sequence into plural coding segments and encoding each segment using different coding methods. However, the prior art made of record fails to teach or fairly suggest or render obvious the novel elements of the instant invention of encoding multiple coding segments by varying the length of the code block, or using different interleaving patterns, and altering the step for separating the information sequence.

Specifically, the prior art made of record, taken alone or in combination fails to teach or fairly suggest or render obvious the novel elements of "adjusting the length of the code block prior to its separation into "code block segments" and the element of "the separation is performed using a transition vector matrix which signifies which input bit shall be forwarded to which sub-branches."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Conclusion*

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shelly A. Chase whose telephone number is 571-272-3816. The examiner can normally be reached on Mon-Fri from 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques can be reached on 571-272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shelly A Chase/  
Primary Examiner, Art Unit 2112